NORAD: Moving Forward with Risk Reduction

Lt Col Bryan Miller
NORAD J35W
19 Nov 09

NOTE: This brief incorporates NORAD & USNORTHCOM specific equities. It does not encompass DOD-wide equities.
Example N-NC Risk Reduction Initiative

Next Generation Over-the-Horizon-Radar Technical Risk Reduction Initiative (NGOTHR TRRI)

• In 2006 J5 submitted an Advanced Capability Technology Demonstration (ACTD) proposal to build a prototype system; low technical readiness levels (TRL) in key areas prevented approval

• N-NC/J5, FSSC & Air Force Research Labs then developed a two-phased proposal to identify and mitigate technical risks as well as gain confidence for a prototype radar

• TRRI Phase 1 was designed to provide: A technical roadmap, a prototype radar system, an advanced radar & atmospheric modeling/simulation program and recommend various 2D antenna array configurations; Phase 1 would procure and utilize an Australian-designed test bed system
  • $5.2M was funded in FY09 by: OSD, Navy, USAF and the Department of Homeland Security. Expected completion: summer 2010
Next Generation Over-the-Horizon-Radar Technical Risk Reduction Initiative (NGOTHR TRRI)

- TRRI Phase 2: Investigates 2D arrays at operational power levels, studies ionospheric effects & signal processing techniques & tests hardware in the US atmospheric environment.
  - TRRI Phase 2 will cost $11.8M; it is expected to take 18-24 months after funding is received in FY11; Expected results: Raised technical readiness of key technologies, tech risk areas mitigated, sizing/cost estimates for building a full-power prototype NGOTHR system.
- Ultimately, TRRI Phase 1 and 2 should improve TRLs to a point that would lead to an operational NGOTHR prototype system.
- N-NC briefed TRRI Phase 2 status & requested support/funding during the 9 Apr 09 Joint Requirements Oversight Council mtgs.
- TRRI Phase 2 was N-NC’s #2 FY09 unfunded request.
**Risk Reduction Teams, Initiatives & Projects**

- Wind Farm Interference and Mitigation Projects
- Interagency Wind Farm Policy Development Teams
- DHS/OSD Interagency Surveillance Summits
  - Next: Air Domain Awareness Summit in January 2010
- Capability Development Working Group
- CANUS Surveillance Working Group
- Integrated Air & Missile Defense (IAMD) Roadmap and IAMD Synchronization Teams
- Simulation, Modeling & Testing Projects/Events
  - Air & Marine Operations Center; DHS & OSD S&T Teams
- Integrated Surveillance Study Team (ISST)
- National Strategy for Aviation Security (NSAS)
Questions?